Problem №7
“Growing through asphalt”
Text of the problem:

• Can a little plant grow straight up through concrete or asphalt?
Aims of the problem:

• Can plants grow through asphalt
• Find out conditions of growing plants through asphalt
Asphalt
Concrete
Turgor

Water is come into cell because of osmosis

Turgor is occurred because of inextensible cell membrane.

Cell membrane is tough, inextensible, semi-permeable membrane

P_{OCM} – osmosis pressure
Observed frequents
Observed frequent

8
Observed frequent cracks
Experiment
Experiment

We have used peanut sprouts to know which mass plants can lift
Growing of seeds

First day
Growing of seeds
Conclusion:

Plants can’t grow through asphalt and concrete if there are no cracks in these materials
Resources:

- www.Wikipedia.com
- www.gost.ru